

Iman Soleimani, PhD Student

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Education

Polytechnique Montréal, Montréal, QC, Canada

(2017)

Ph.D. Student, Department of Chemical Engineering

Thesis: "Local Hydrodynamics of Fluidized Bed Reactors at high pressure and temperature"

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

(2008)

M.Sc. Degree, Department of Chemical Engineering

Thesis: "Retrofit for Debottlenecking of Heat Exchanger Networks Designed by Pinch Technology Method"

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

(2005)

B.Sc. Degree, Department of Chemical Engineering

Thesis: "Simulation of the Tehran's Oil Refinery Atmospheric Distillation Tower by Pro/II"

Research Interests

- Reaction Engineering and Reactor Design
- Environmental Engineering, CO2 solution, ...
- Simulation and Optimization of Processes
- Natural Gas and LPG treatment
- Water and wastewater treatment
- Transport Phenomena
- Separation and Purification Processes

Work Experience

•	NGL Fractionation, Propane and Butane Treatment Units South Pars Gas Complex (SPGC), Asaluyeh, Iran	Process Engineer	2015-2017
•	Ethane Decarbonation and Drying Units South Pars Gas Complex (SPGC), Asaluyeh, Iran	Process Engineer	2013-2015
•	Sulfur Recovery and Granulation Units South Pars Gas Complex (SPGC), Asaluyeh, Iran	Process Engineer	2011-2013

Research Background

- Simulation and optimization using numerical methods
- Hydrodesulfurization of petroleum components using trickle-bed reactor
- Simulation of liquid-liquid extraction for LPG treatment
- Optimization of process key parameters in caustic regeneration unit for LPG treatment
- Design and simulation of packed columns of 4A molecular sieves for ethane drying
- Investigation on production of bio lubricant from hydrolysis lignin

Publications

- M. Fesanghary, E. Damangir, I. Soleimani, Design optimization of shell and tube heat exchangers using global sensitivity analysis and harmony search algorithm, Applied Thermal Engineering, Volume 29, Issues 5-6, April 2009, Pages 1026-103
- M. Mohammadnejad, H. Ale Ebrahim, I. Soleimani, Performance Study of Hydrodesulfurization for Various Sulfur Compounds with Different Catalysts by Simulation of Hydrotreating Trickle Bed Reactor, New Processes, Volume 10, Issues 51, 2015, Pages 201-219